CIVIL-TECH CONSULTANTS AND ENGINEERS

Building & Highway Material Testing Laboratory

NABL - Accredited Laboratory as per ISO / IEC-17025 :2005

T-2377

Job No.: CTCE/BBMP/KRIDL/W.No.03/CSR-01/240c/CEMENT/2016-17 Date: 12.01.2017

TEST REPORT ON CEMENT

* Customer	:	**Asst. Executive Engineer,** Yelahanka Satellite Town Sub Division, BBMP, Bangalore.
* Agency	:	**Technical Manager (West),** KRIDL, Bangalore.
* Name of Work	:	Construction of concrete drains and concrete roads at Basavalingappa Layout in Attur Ward No.03, BBMP, Bangalore.
* Reference	:	BBMP/EE(YNK.D)/W.O/105/2016-17 Dated: 07.01.2017
* Sample ID	:	Cement - Sample 2
Sample Received on	:	07.01.2017
Period of Testing	:	07.01.2017 to 12.01.2017

The results of the tests conducted on the cement sample are as follows:

Sl. No	Descriptions	Test Method as per IS	Test Result	Requirements as per IS: 8112-2013
1	Standard Consistency	IS-4031 (Part -4) 1988 (RA-2014)	28.50 %	-
2	a) Initial Setting Time	IS-4031 (Part -5) 1988 (RA-2014)	135 Minutes	Not Less than 30 Minutes
	b) Final Setting Time	IS-4031 (Part -5) 1988 (RA-2014)	470 Minutes	Not More than 600 Minutes
3	Soundness by Le Chartlier Method	IS-4031 (Part-3) 1988 (RA-2014)	1 mm	Not more than 10mm

*Information is furnished by the Customer/Representative.

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AE-03

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CIVIL-TECH CONSULTANTS AND ENGINEERS

Building & Highway Material Testing Laboratory

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Job No.: CTCE/BBMP/KRIDL/W.No.03/CSR-01/240c/SAND-Gradation/2016-17 12.01.2017

TEST REPORT ON SIEVE ANALYSIS OF FINE AGGREGATES

* Customer	:	**Asst. Executive Engineer,** Yelahanka Satellite Town Sub Division, BBMP, Bangalore.
* Agency	:	**Technical Manager (West),** KRIDL, Bangalore.
* Name of Work	:	Construction of concrete drains and concrete roads at Basavalingappa Layout in Attur Ward No.03, BBMP, Bangalore.
* Reference	:	BBMP/EE(YNK.D)/W.O/105/2016-17 Dated: 07.01.2017
* Sample ID	:	Fine Aggregates - Sample 2
Technical Reference	:	IS : 2386 (Part 1) - 1963 (RA-2011)
Sample Received On	:	07.01.2017
Date of Testing	:	12.01.2017

Total Wt. of Aggregates in gms = **1000**

IS Sieve Size in mm	Cumulative Weight Passing in %	Specific Limits as per IS 383-1970 (RA- 2011)			
		Zone-I	Zone-II	Zone-III	Zone-IV
10	100	100	100	100	100
4.75	95.20	90-100	90-100	90-100	95-100
2.36	74.90	60-95	75-100	85-100	95-100
1.18	53.50	30-70	55-90	75-100	90-100
600 Micron	27.00	15-34	35-59	60-79	80-100
300 Micron	12.20	5-20	8-30	12-40	15-50
150 Micron	4.70	0-10	0-10	0-10	0-15

* Information is furnished by the Customer/Representative

Remarks : This sample is under Zone-I specific limits.

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Job No.: CTCE/BBMP/KRIDL/W.No.03/CSR-01/240c/AGG/GR/2016-17

12.01.2017

TEST REPORT ON SIEVE ANALYSIS OF COARSE AGGREGATES

* Customer	:	**Asst. Executive Engineer,** Yelahanka Satellite Town Sub Division, BBMP, Bangalore.
* Agency	:	**Technical Manager (West),** KRIDL, Bangalore.
* Name of Work	:	Construction of concrete drains and concrete roads at Basavalingappa Layout in Attur Ward No.03, BBMP, Bangalore.
* Reference	:	BBMP/EE(YNK.D)/W.O/105/2016-17 Dated: 07.01.2017
* Sample ID	:	Coarse Aggregates (40mm) - Sample 2
Technical Reference	:	IS : 2386 (Part 1) -1963 (RA-2011)
Sample Received on	:	07.01.2017
Date of Testing	:	12.01.2017

Total Wt. of Aggregates in gms= **5000**

IS Sieve Size in mm	Cumulative Weight Passing in %	Specific Limits as per IS 383-1970 (RA- 2011)	
		Graded	Single Sized
80	100	100	-
63	100	-	100
40	96.70	95-100	85-100
20	39.70	30-70	0-20
10	12.80	10-35	0-5
4.75	3.00	0-5	-

* Information is furnished by the Customer/Representative

Remarks : This sample is under graded specific limits.

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Job No. CTCE/BBMP/KRIDL/W.No.03/Steel/2016-17

12.01.2017

TEST REPORT ON REINFORCEMENT STEEL

* Customer	:	**Asst. Executive Engineer,** Yelahanka Satellite Town Sub Division, BBMP, Bangalore.
* Agency	:	**Technical Manager (West),** KRIDL, Bangalore.
* Name of work	:	Construction of concrete drains and concrete roads at Basavalingappa Layout in Attur Ward No.03, BBMP, Bangalore.
* Reference	:	BBMP/EE(YNK.D)/W.O/105/2016-17 Dated: 07.01.2017
* Samples ID	:	12 mm Bar
Technical Reference	:	IS: 1786-2008 (RA-2013)
Date of Testing	:	12.01.2017

Sl No	Nominal size (dia) (mm)	Mass per metre (Kg/mtr)	TENSILE STRENGTH			Bend Test	Rebend Test
			0.20% proof stress/Yield stress N/mm2	Tensile strength (Ultimate stress) N/mm2	Elongation percent gauge length		
1	12	0.89	514	516	13.65	O.K	O.K

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Job No.: CTCE/BBMP/KRIDL/W.No.03/CSR-01/240c/Cube/2016-17

14.02.2017

TEST REPORT ON COMPRESSIVE STRENGTH OF CONCRETE CUBES

* Customer	:	**Asst. Executive Engineer,** Yelahanka Satellite Town Sub Division, BBMP, Bangalore.
* Agency	:	**Technical Manager (West),** KRIDL, Bangalore.
* Name of the work	:	Construction of concrete drains and concrete roads at Basavalingappa Layout in Attur Ward No.03, BBMP, Bangalore.
* Reference	:	BBMP/EE(YNK.D)/W.O/105/2016-17 Dated: 07.01.2017
* Sample ID	:	Drain Concrete
Technical Reference	:	IS: 516-1959 (RA-2013)
Size of cubes	:	150mmx150mmx150mm
Cross Sectional Area	:	22500 mm^2
* Grade of Concrete	:	M_{20}
Compressive Strength as on	:	28^{th} day
Sample Received on	:	14.02.2017

Sl.No.	Date of casting	Date of testing	Weight of cube (Kg)	Failure load (KN)	Compressive strength (N/mm^2)
1	17.01.2017	14.02.2017	8.367	497.5	22.11
2	17.01.2017	14.02.2017	8.253	489.3	21.75
3	17.01.2017	14.02.2017	8.469	513.7	22.83

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Job No.: CTCE/BBMP/KRIDL/W.No.03/CSR-01/240c/Cube/2016-17 20.02.2017

TEST REPORT ON COMPRESSIVE STRENGTH OF CONCRETE CUBES

* Customer	:	**Asst. Executive Engineer,** Yelahanka Satellite Town Sub Division, BBMP, Bangalore.
* Agency	:	**Technical Manager (West),** KRIDL, Bangalore.
* Name of the work	:	Construction of concrete drains and concrete roads at Basavalingappa Layout in Attur Ward No.03, BBMP, Bangalore.
* Reference	:	BBMP/EE(YNK.D)/W.O/105/2016-17 Dated: 07.01.2017
* Sample ID	:	Pavement Concrete
Technical Reference	:	IS: 516-1959 (RA-2013)
Size of cubes	:	150mmx150mmx150mm
Cross Sectional Area	:	22500 mm^2
* Grade of Concrete	:	M_{20}
Compressive Strength as on	:	28^{th} day
Sample Received on	:	20.02.2017

Sl.No.	Date of casting	Date of testing	Weight of cube (Kg)	Failure load (KN)	Compressive strength (N/mm^2)
1	23.01.2017	20.02.2017	8.253	506.7	22.52
2	23.01.2017	20.02.2017	8.167	495.2	22.01
3	23.01.2017	20.02.2017	8.394	520.4	23.13

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TEST REPORT ON COMPRESSIVE STRENGTH OF CONCRETE CUBES

* Customer	:	**Asst. Executive Engineer,** Yelahanka Satellite Town Sub Division, BBMP, Bangalore.
* Agency	:	**Technical Manager (West),** KRIDL, Bangalore.
* Name of the work	:	Construction of concrete drains and concrete roads at Basavalingappa Layout in Attur Ward No.03, BBMP, Bangalore.
* Reference	:	BBMP/EE(YNK.D)/W.O/105/2016-17 Dated: 07.01.2017
* Sample ID	:	Pavement Concrete
Technical Reference	:	IS: 516-1959 (RA-2013)
Size of cubes	:	150mmx150mmx150mm
Cross Sectional Area	:	22500 mm^2
* Grade of Concrete	:	M_{30}
Compressive Strength as on	:	28^{th} day
Sample Received on	:	20.02.2017

Sl.No.	Date of casting	Date of testing	Weight of cube (Kg)	Failure load (KN)	Compressive strength (N/mm^2)
1	23.01.2017	20.02.2017	8.347	517.2	22.99
2	23.01.2017	20.02.2017	8.452	528.9	23.51
3	23.01.2017	20.02.2017	8.247	504.6	22.43

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